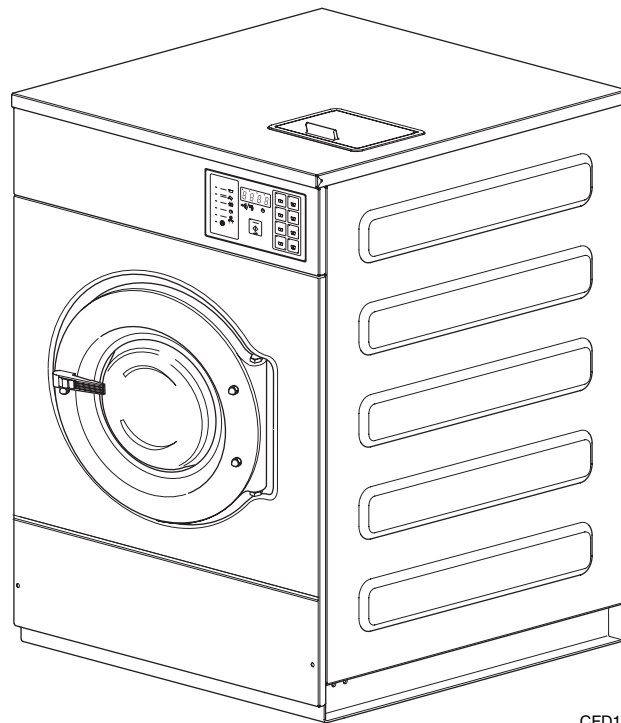


Washer-Extractors

Cabinet Freestanding

Refer to Page 2 for Model Identification



CFD11C

Para bajar una copia de estas instrucciones en español,
visite www.comlaundry.com.

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)



www.comlaundry.com

Part No. 9001909R2
November 2007

Table of Contents

Introduction	2
Model Identification	2
Nameplate Location.....	3
Replacement Parts	3
Customer Service.....	3
Safety Information	5
Explanation of Safety Messages.....	5
Important Safety Instructions	5
Safety Decals	7
Operator Safety	8
Specifications and Dimensions	9
Installation	13
Dimensional Clearances.....	13
Machine Foundation	13
Mechanical Installation.....	14
Frame Dimensions and Mounting Bolt Location.....	14
Mounting Bolt Installation (If Required).....	16
Removing the Transport Block.....	17
Drain Connection.....	18
Water Connection	19
Electrical Installation	20
Electrical Connection.....	20
Out-of-Balance Switch	22
Control Function Test	23

© Copyright 2007, Alliance Laundry Systems LLC

All rights reserved. No part of the contents of this book may be reproduced or transmitted in any form or by any means without the expressed written consent of the publisher.

Introduction

Model Identification

Information in this manual is applicable to these models:

18	NX18BVPA6	NX18BVXA6
	NX18BVPA7	NX18BVXA7
	NX18BVQA6	NX18BVXM6
	NX18BVQA7	NX18BVXM7
30	NX30BVPA6	NX30BVXA6
	NX30BVPA7	NX30BVXA7
	NX30BVQA6	NX30BVXM6
	NX30BVQA7	NX30BVXM7

Nameplate Location

The nameplate is located at the rear of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* and *Figure 2*.

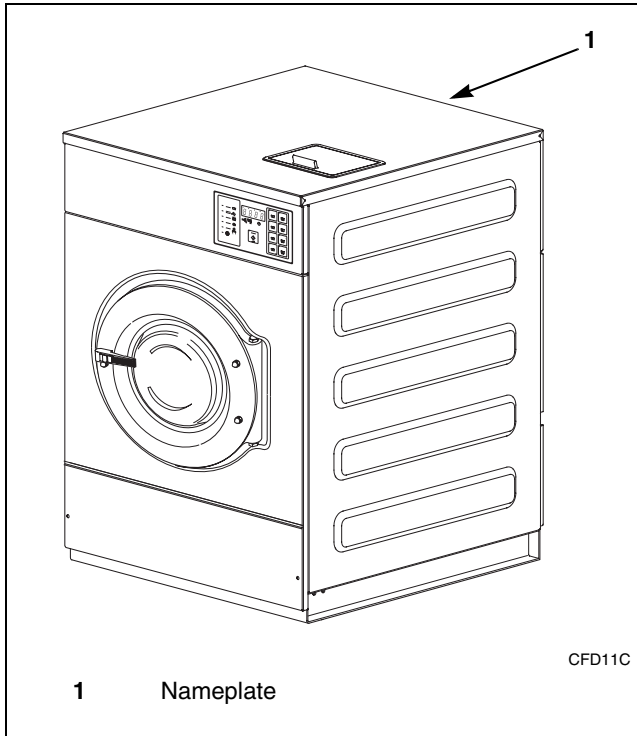


Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call (920) 748-3121.

Introduction

Model Number Familiarization Guide	
Sample Model Number: NX18BVXM60001	
NX	Model Number Prefix
18	Washer-Extractor Capacity (pounds dry weight of laundry)
B	Type of Electrical Control
V	Washer-Extractor Speed Capability (V = Variable-Speed)
X	Voltage Code
M6	Design Series (M=Domestic, A=International)
0001	Option Identification (varies from machine to machine)

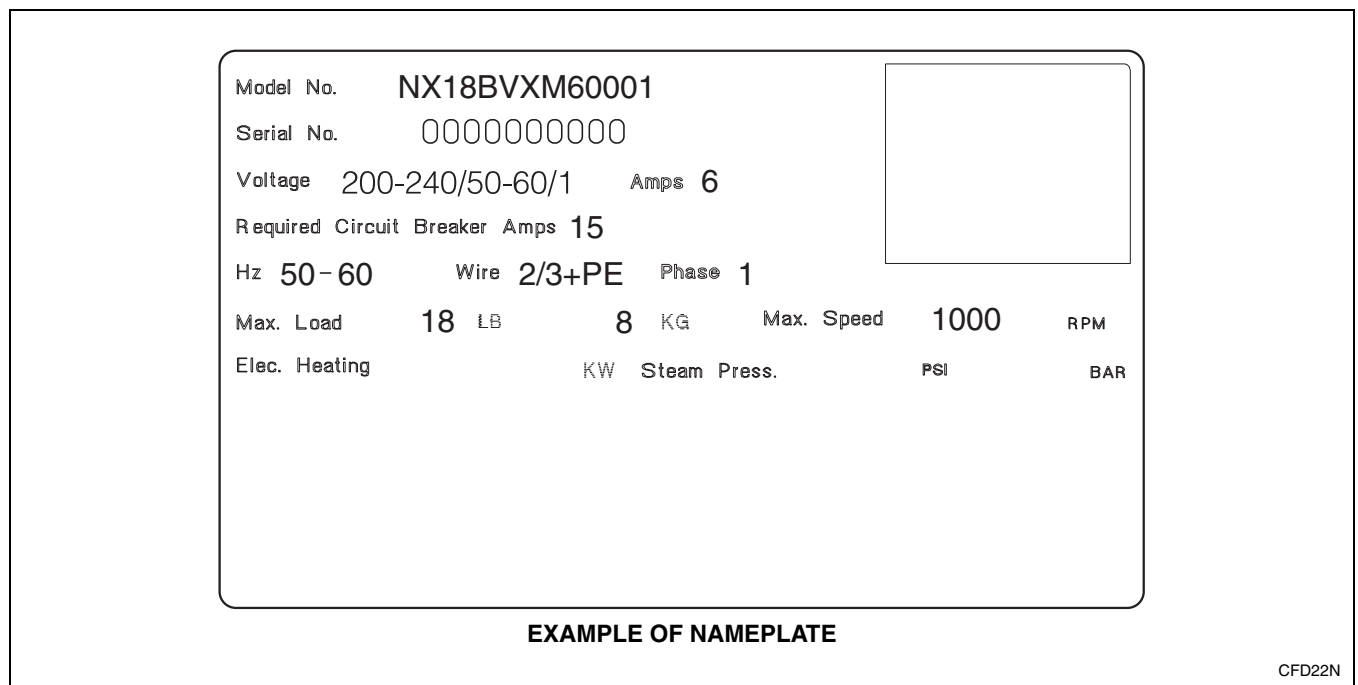


Figure 2

Safety Information

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.	

	WARNING
WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.	

	CAUTION
CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:	
W023	

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

Safety Information

9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

	WARNING
This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.	
SW004	

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

	WARNING
Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.	
W703	

	CAUTION
Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.	
SW025	

	WARNING
Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.	
SW014	

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

	WARNING
NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.	
SW012	

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
 - c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

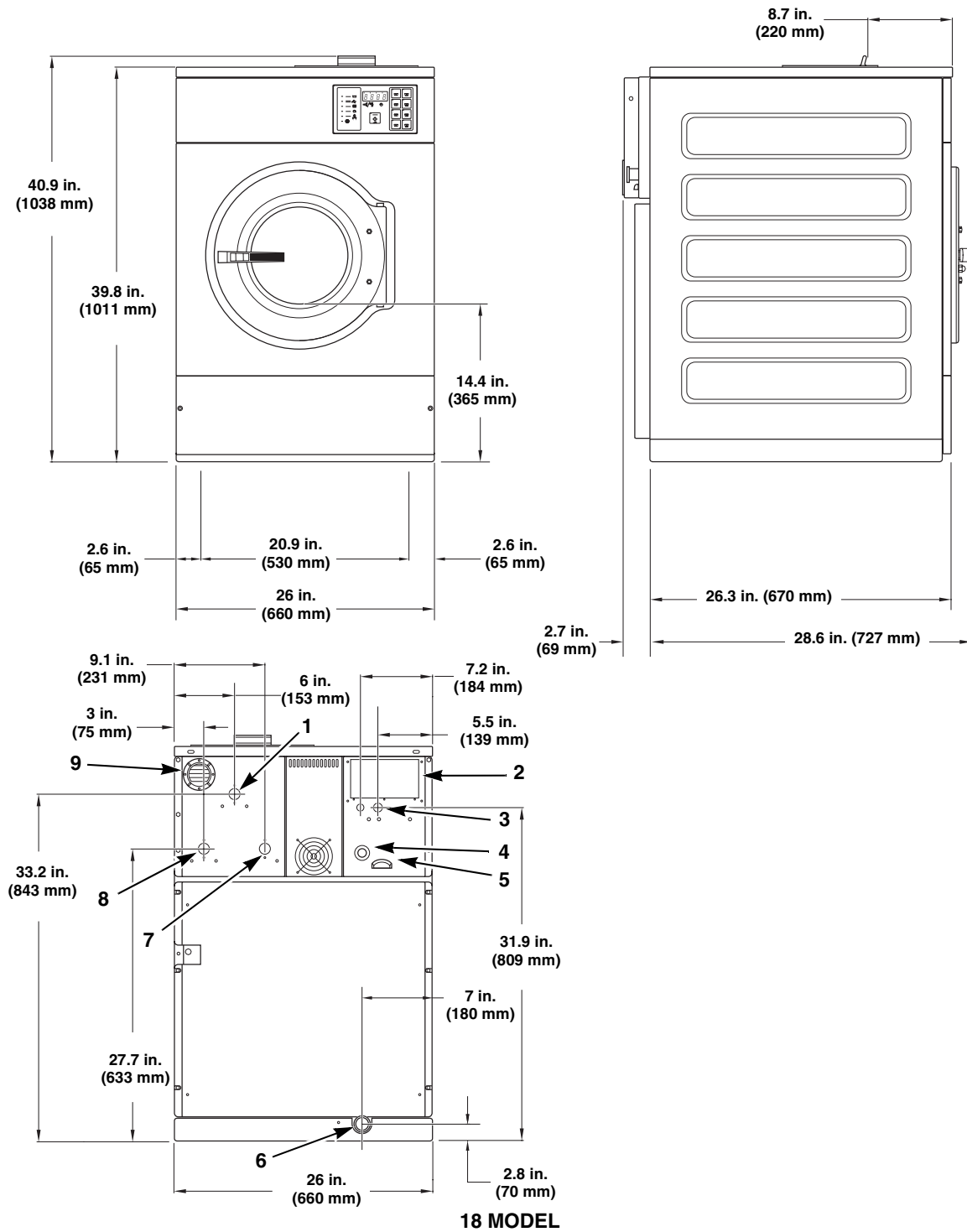
	WARNING
Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.	
SW039	

Specifications and Dimensions

General Specifications			
Model		18	30
Overall Dimensions			
Overall width		26 in. (660 mm)	30.7 in. (780 mm)
Overall height		40.9 in. (1038 mm)	47.3 in. (1202 mm)
Overall depth		29.1 in. (739 mm)	33.1 in. (842 mm)
Weight and Shipping Information			
Net weight		465.2 lb. (211 kg)	716.5 lb. (325 kg)
Shipping weight		513.7 lb. (233 kg)	782.6 lb. (355 kg)
Shipping volume		22.5 ft ³ (0.8 m ³)	34.7 ft ³ (1.3 m ³)
Wash Cylinder Information			
Cylinder diameter		20.9 in. (530 mm)	25.6 in. (650 mm)
Cylinder depth		13 in. (330 mm)	15.76 in. (400 mm)
Cylinder volume		2.7 ft ³ (76 l)	4.66 ft ³ (132 l)
Perforation size		0.12 in. (3 mm)	0.12 in. (3 mm)
Door Opening Information			
Door opening size		11.8 in. (300 mm)	11.8 in. (300 mm)
Height of door bottom above floor		11 in. (280 mm)	15 in. (381 mm)
Water Consumption			
Average water consumption per cycle	HOT	3 gal. (11 l)	13 gal. (49 l)
	COLD	18 gal. (68 l)	27 gal. (102 l)
Power Consumption			
Average power used per cycle	Motor	0.15 kW/hr	0.2 kW/hr
	Heating	1.5 kW/hr	3 kW/hr

Specifications and Dimensions

General Specifications		
Model	18	30
Drive Train Information		
Number of motors in drive train	1	1
Drive motor power	1 HP (0.75 kW)	2 HP (1.5 kW)
Cylinder Speeds		
Wash/reverse speed	10-50 RPM	10-50 RPM
Distribution/drain speed	85 RPM	85 RPM
Extract speed	250-1000 RPM	250-1000 RPM
Centrifugal Force Data		
Wash/reverse centrifugal force	0.03-0.74 Gs	0.04-0.91 Gs
Extract centrifugal force	19-296 Gs	23-363 Gs
Balance Detection		
Vibration safety switch installed	Standard	Standard
Electrical Heating (International Models Only)		
Total electrical heating capacity	9 kW	18 kW
Electrical heating elements	3	6
Electrical heat element size	3 kW	3 kW

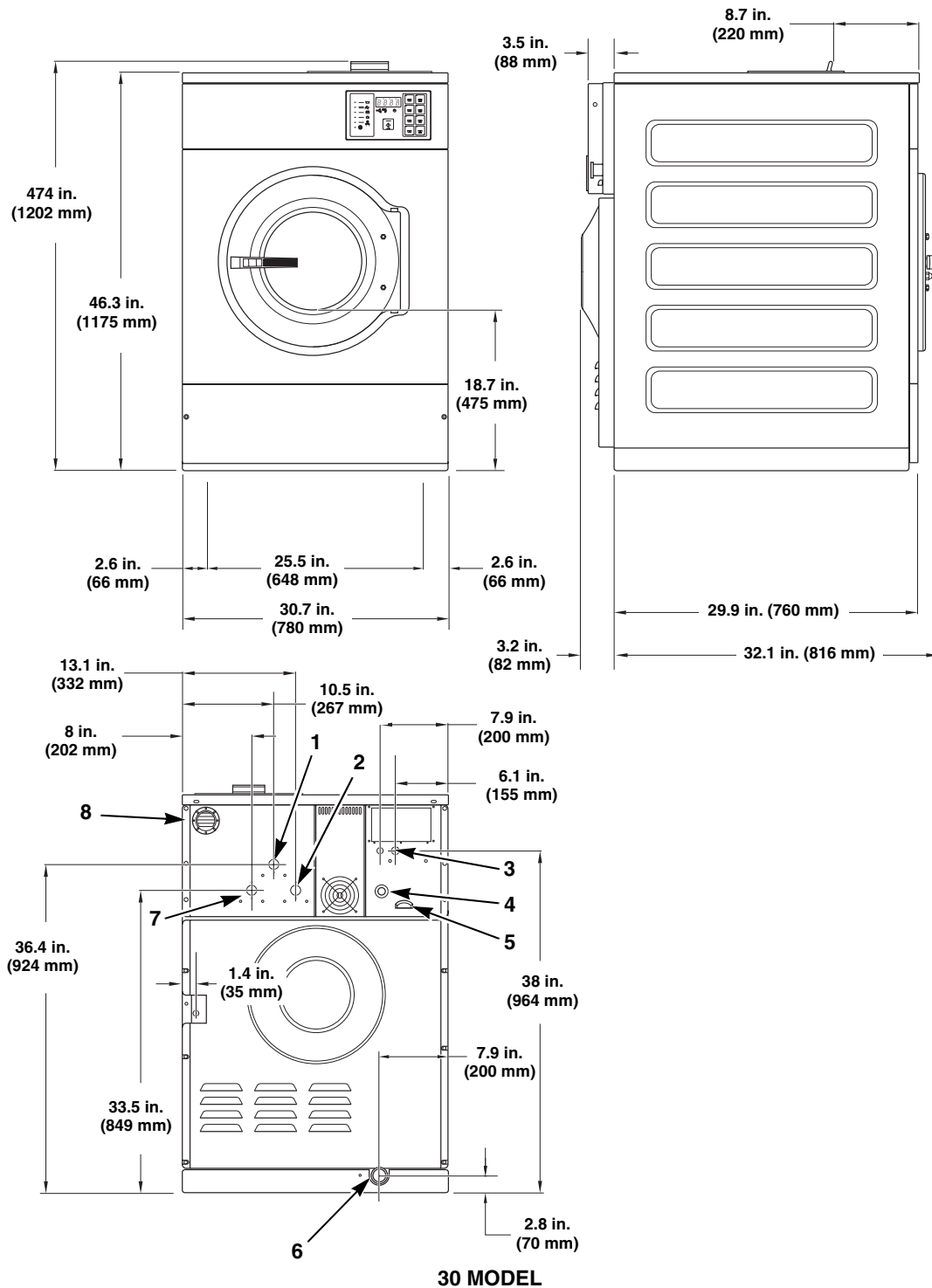


- | | | | |
|---|---|---|---|
| 1 | Hot Water Connections .75 in. (19 mm) | 6 | Drain Outlet |
| 2 | Cold Water Inlet (required) .75 in. (19 mm) | 7 | Cold Water Inlet (required) .75 in. (19 mm) |
| 3 | Power Input | 8 | Cold Water Inlet (required) .75 in. (19 mm) |
| 4 | Emergency Stop Button | 9 | Fill and Supply Ventilation |
| 5 | Ventilation Tub | | |

CFD61N

Figure 3

Specifications and Dimensions



- | | | | |
|---|---|---|---|
| 1 | Hot Water Connections .75 in. (19 mm) | 6 | Drain Outlet |
| 2 | Cold Water Inlet (required) .75 in. (19 mm) | 7 | Cold Water Inlet (required) .75 in. (19 mm) |
| 3 | Power Input | 8 | Cold Water Inlet (required) .75 in. (19 mm) |
| 4 | Emergency Stop Button | 9 | Fill and Supply Ventilation |
| 5 | Ventilation Tub | | |

CFD62N

Figure 4

Installation

Dimensional Clearances

Table 1 shows recommended minimum clearances on all sides of the washer-extractor.

Recommended Minimum Clearances		
Model	18	30
Minimum rear clearance	24 in. (600 mm)	24 in. (600 mm)
Minimum clearance between machine and wall	6 in. (150 mm)	6 in. (150 mm)
Minimum clearance between machines (side)	1 in. (25.4 mm)	1 in. (25.4 mm)
Minimum front clearance (door swing)	16.5 in. (419 mm)	16.5 in. (419 mm)

Table 1

Machine Foundation

Thoroughness of detail must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration during extract.

	CAUTION
Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.	
W488	

The washer-extractor must be placed on a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

The standard installation does not require anchoring unless mandated by state or local codes.

Kinetic energy of the cylinder and dynamic loads on the floor or foundation are shown in *Table 2*.

Table 2 can be used as a reference when designing floors and foundations.

Floor Load Data		
Model	18	30
Kinetic energy of the cylinder	1386 N/m	2592 N/m
Dynamic bottom load	700 N/16 Hz	1000 N/16 Hz

Table 2

Mechanical Installation

Frame Dimensions and Mounting Bolt Location

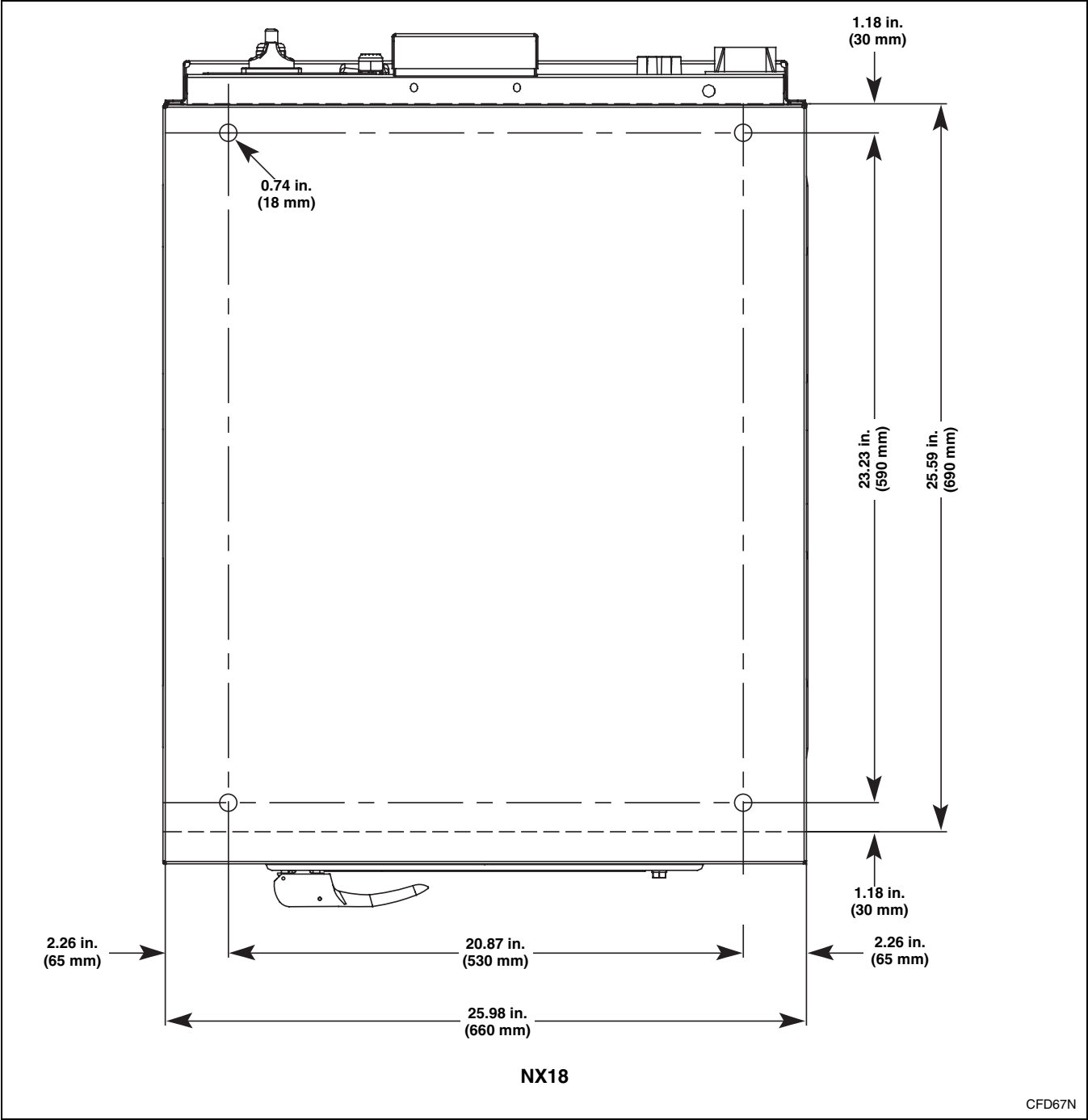


Figure 5

IMPORTANT: Drawing is not to scale.

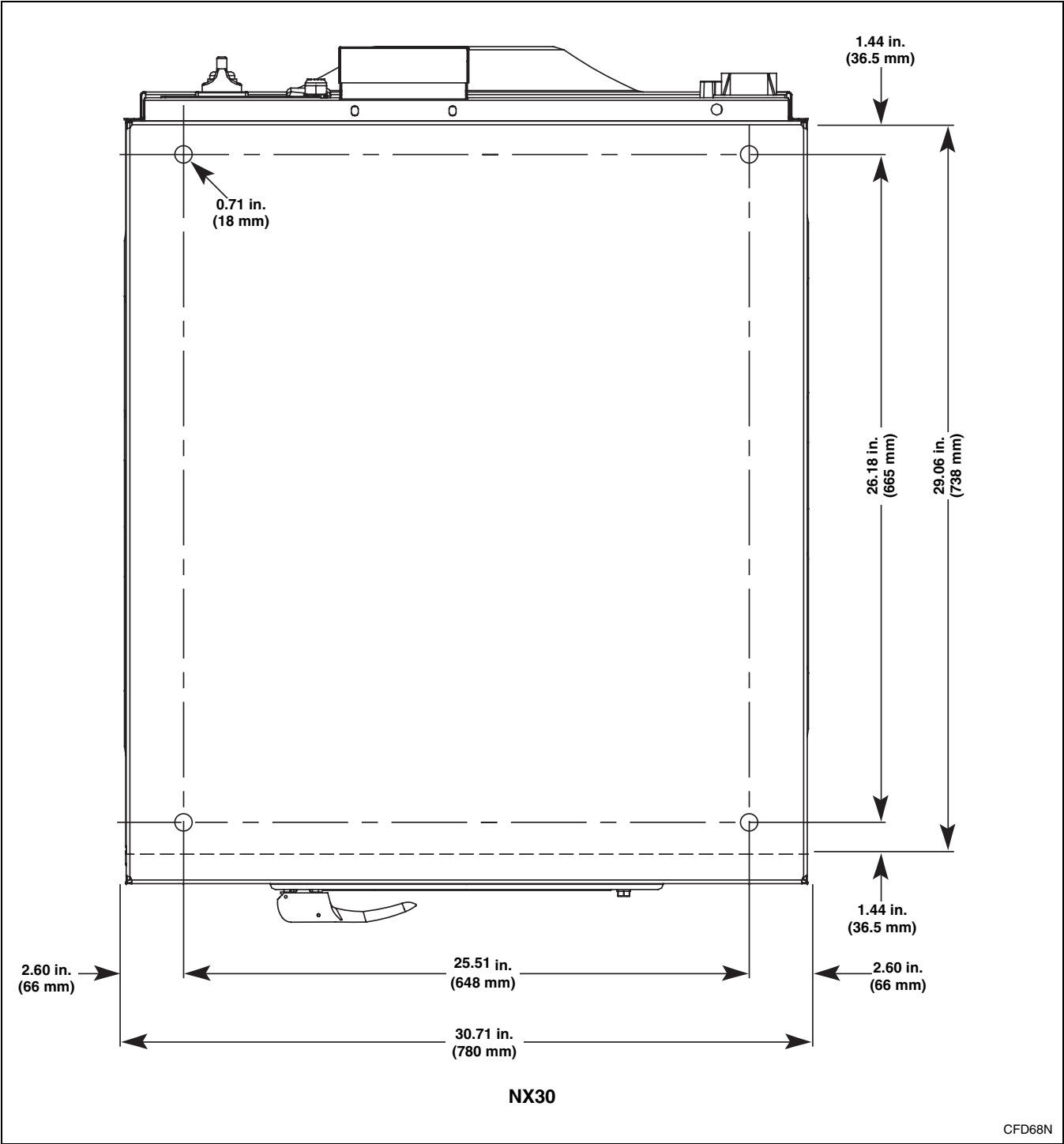


Figure 6

IMPORTANT: Drawing is not to scale.

Mounting Bolt Installation (If Required)

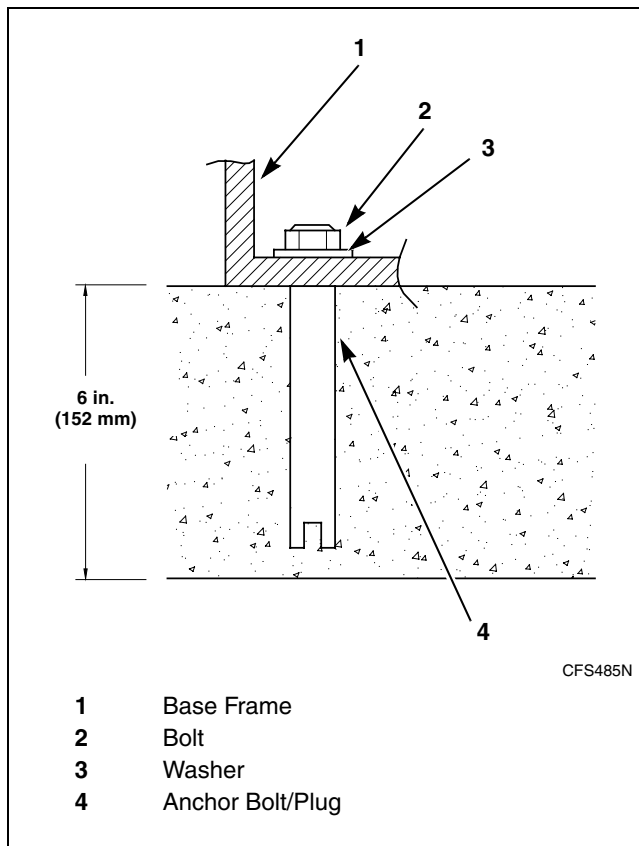


Figure 7

After the concrete has cured and the anchors are installed, proceed as follows:

1. Place the washer-extractor adjacent to the foundation. Do not attempt to move it by pushing on the sides. Always insert a pry bar or other device under the bottom of the frame of the washer-extractor to move it.
2. Place the washer-extractor carefully over the anchors.
3. Put bolts through the machine in the anchors and fasten them. The diameter of the bolt must be minimum 1/2-13 or 12 mm.
4. To level machine, fill the spaces between the machine base and floor with machinery grout. Grout completely under all frame members. Remove front and rear panels to gain access to all frame members. Force grout under the machine base until all voids are filled.
5. Remove the spacers carefully, allowing the machine to settle into the wet grout.
6. Position washers and locknuts on machinery anchor bolts and fingertighten to machine base.
7. After the grout is completely dry, tighten the locknuts by even increments – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.

Removing the Transport Block



WARNING

The machine must never be activated before removing the transport block.

W618

To prevent damage during transportation, machine has been equipped with a transport block. To remove, proceed as follows:

1. Place machine on level ground.
2. Remove service panels and back panel.
3. At rear of machine, lift at bottom of motor and remove transport block. Refer to *Figure 8*.

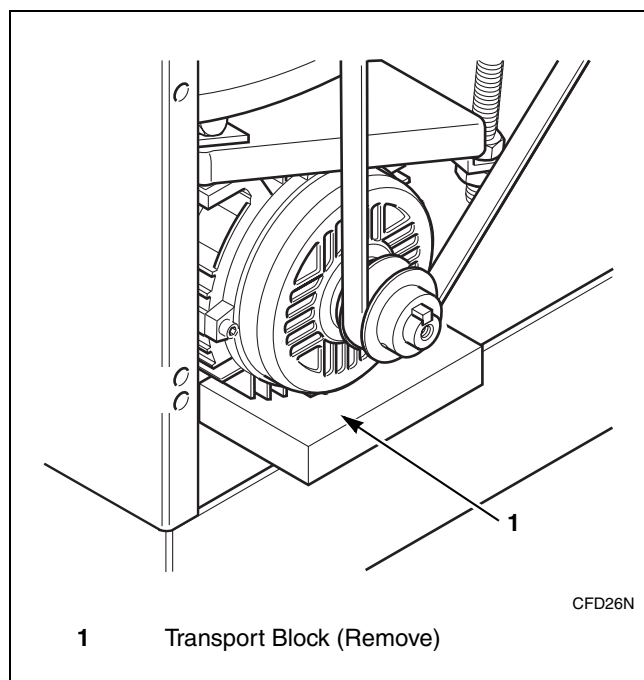


Figure 8

IMPORTANT: Do NOT lift motor by the pulley.

IMPORTANT: Do NOT remove panel braces.
Refer to *Figure 9*.

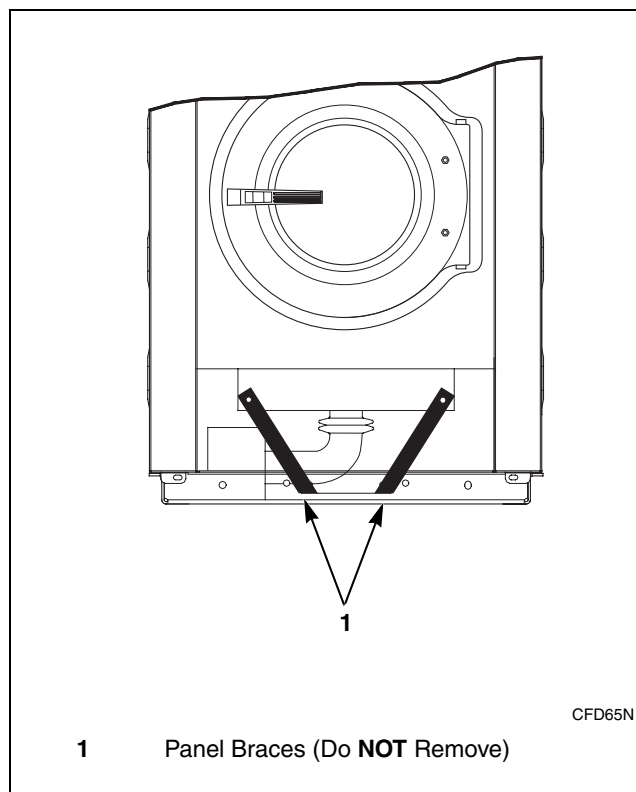


Figure 9

4. Replace all panels removed.

Installation

Drain Connection

A drain system of adequate capacity is essential to washer-extractor performance.

Ideally, the water should empty through a vented pipe directly into a sump or floor drain.

Figure 10 shows drain line and drain trough configurations.

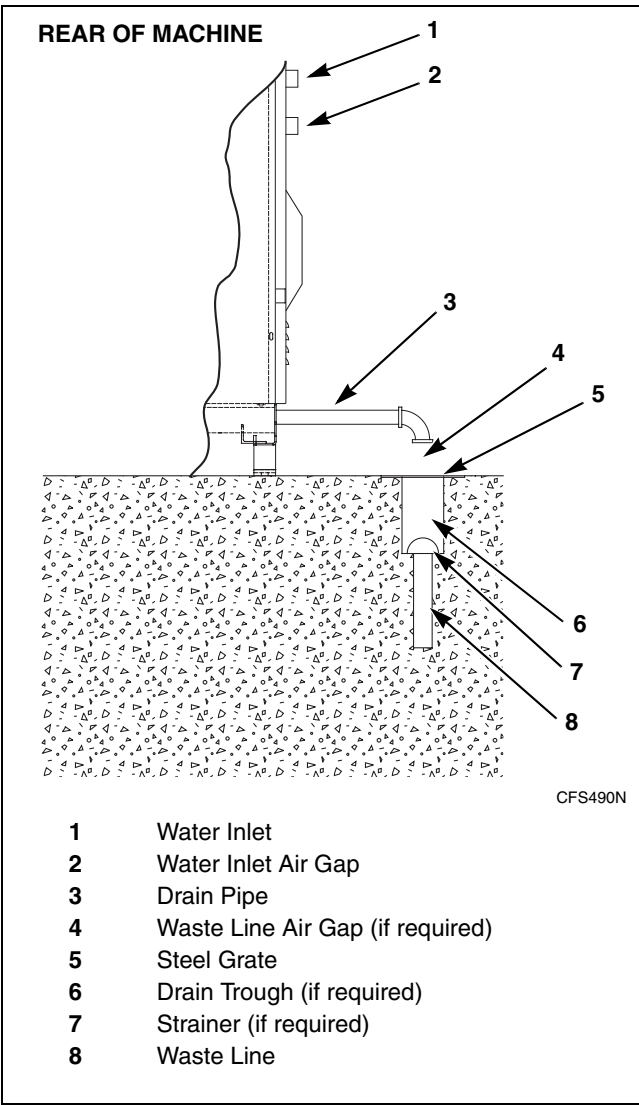


Figure 10

A flexible connection must be made to a vented or air gap drain system to prevent an air lock and to prevent siphoning. If proper drain size is not available or practical, a surge tank is required. A surge tank in conjunction with a sump pump should be used when gravity drainage is not possible, such as in below-ground-level installations.

Before any deviation from specified installation procedures is attempted, the customer or installer should contact the distributor.

Increasing the drain hose length, installing elbows, or causing bends will decrease, impairing washer-extractor performance.

Refer to Table 3 for capacity-specific drain information.

Installation of additional washer-extractors will require proportionately larger drain connections. Refer to Table 4.

Drain Information		
Model	18	30
Drain connection size, ID	2 in. (51 mm)	2 in. (51 mm)
Number of drain outlets	1	1
Drain flow capacity	20 gal/min (76 l/min)	20 gal/min (76 l/min)
Recommended drain pit size	1.8 ft ³ (51 l)	2.5 ft ³ (70.3 l)

Table 3

Drain Line Sizing Minimum Drain ID							
Model	Number of Machines						
	1	2	3	4	5	6	7
18	2 in. (51 mm)	3 in. (76.2 mm)	3 in. (76 mm)	4 in. (102 mm)	4 in. (102 mm)	5 in. (124 mm)	5.5 in. (140 mm)
30	2 in. (51 mm)	3 in. (76.2 mm)	3.5 in. (88 mm)	4 in. (102 mm)	4.5 in. (114 mm)	5 in. (124 mm)	5.5 in. (140 mm)

Table 4

Water Connection



WARNING

To avoid personal injury, recommended inlet water temperature should be no higher than 125° Fahrenheit (51° Celsius).

W709

The models are delivered with three hoses with 3/4 inch hose connectors. These hoses fit the water inlet valves of the machine and the main water inlet taps. To ensure the optimal functioning of the water inlet valves, the water pressure on the inlet should be between 30-85 psi (2-5.7 bar). If the pressure is too low, the cycle time will increase considerably.

Connections should be supplied by a hot and a cold water line per national and local codes.

To connect water service to machine with rubber hoses, use the following procedure:

1. Before installing hoses, flush the water system for at least two minutes.
2. Check filters in the washer-extractor's inlet for proper fit and cleanliness before connecting.
3. Hang the hoses in a large loop, do not allow them to kink.

If additional hose length is needed use flexible hoses.

Pressure of 30-85 psi (2-5.7 bar) provides best performance. Although the washer-extractor will function at lower pressures, increased fill times will occur with some loss of supply flushing.

Suitable air cushions should be installed in supply lines to prevent "hammering."

Water Supply Information		
Model	18	30
Water inlet connection size	0.75 in. (19 mm)	0.75 in. (19 mm)
Number of water inlets (standard)	3	3
Recommended pressure	30-85 psi (2-5.7 bar)	30-85 psi (2-5.7 bar)
Inlet flow capacity	5.3 gal/min (20 l/min)	5.3 gal/min (20 l/min)

Table 5

Electrical Installation

IMPORTANT: Electrical ratings are subject to change. Refer to serial decal for electrical ratings information specific to your machine.

IMPORTANT: Alliance Laundry Systems warranty does not cover compounds that fail as a result of improper input voltage.

	WARNING
Hazardous Voltage. Can cause shock, burn or cause death. Allow machine power to remain off for two minutes prior to working in and around AC inverter drive.	
W359	

	WARNING
Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.	
W360	

The AC inverter drive requires a clean power supply free from voltage spikes and surges. A voltage monitor should be used to check incoming power. The customer's local power company may provide such a monitor.

If input voltage measures above 240V for a 220V drive or above 415V for a 400V drive, ask the power company to lower the voltage. As an alternative, a step-down transformer kit is available from the distributor.

The AC drive provides overload protection for the drive motor. However, a separate single or three phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the data plate on the back of the washer-extractor or consult *Table 6* for circuit breaker requirements.

	DANGER
Do not use a phase adder on any variable-speed machine.	
W490	

The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

The connection should be shielded in a liquid tight or approved flexible conduit with proper conductors of correct size installed in accordance with the National Electric Code or other applicable codes. The connection must be made by a qualified electrician using the wiring diagram provided with the washer-extractor, or according to accepted European standards for CE-approved equipment.

Use wire sizes indicated in *Table 6* for runs up to 50 feet.

Use next larger size for runs of 50 to 100 feet. Use two sizes larger for runs greater than 100 feet.

For personal safety and proper operation, the washer-extractor must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform with the National Electric Code, article 250-95. The ground connection must be made to a proven earth ground, not to conduit or water pipes.

Electrical Connection

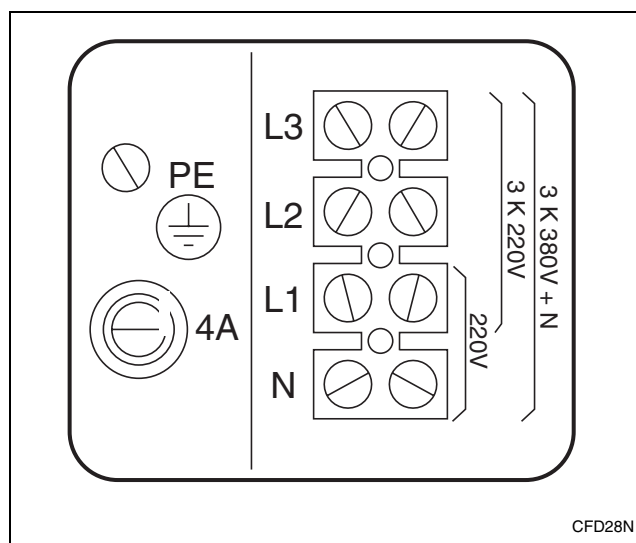


Figure 11

Remove the cover plate at the back of the machine.

Connect the power cable to the connectors.

Machine without Electric Heating

Connect 200-240V single phase (1AC) to the connectors "N" and "L1". The green/yellow grounding clamp has to be the grounding wire "PE".

Machine with Electric Heating**200-240V 3AC**

200-240V 3 phase (3AC) should be connected to the connectors “L1, L2, L3”. Refer to *Figure 11*.

The green/yellow grounding clamp has to be connected to the grounding wire “PE”.

380-415V 3AC + N

380-415V 3 phase (3AC + N) has to be connected to the connectors “L1, L2, L3”, the blue neutral to the “N” connector. Refer to *Figure 11*.

The green/yellow grounding clamp has to be connected to the grounding wire “PE”.

Electrical Specifications													
Voltage Designation						Standard				Electric Heat			
Model	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG/mm²	kW	Full Load Amps	Circuit Breaker	AWG/mm²	kW
18	P	380-415	50/60	3+N	3+N+PE	Not available				9	16	12/4.0	9
	Q	200-240	50/60	3	3+PE	Not available				17	25	10/6.0	9
	X	200-240	50/60	1/3	2/3+PE	6	15	14/2.5	0.75	Not available			
30	P	380-415	50/60	3+N	3+N+PE	Not available				43	50	8/10.0	18
	Q	200-240	50/60	3	3+PE	Not available				28	32	8/10.0	18
	X	200-240	50/60	1/3	2/3+PE	12	15	14/2.5	1.5	Not available			

Table 6

Out-of-Balance Switch

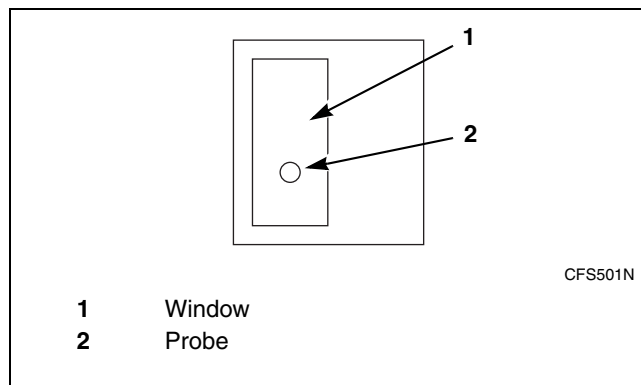


Figure 12

The out-of-balance switch is mounted on the upper right side on the back of the control panel. There is a window around the probe of the switch that is mounted on the movable part of the machine.

When the machine goes out of balance by overloading or uneven distribution of the linen, the out-of-balance switch will interrupt this action to prevent damage to the machine.

IMPORTANT: To guarantee good functioning, the probe should be centered horizontally and vertically at 1/3 from the bottom of the tilt window (when machine drum is empty).

Control Function Test

The washer-extractor should be cleaned after the installation is complete. A function test should then be executed on the unloaded machine:

1. Verify that power supply voltage and phase are correct in accordance with the washer-extractor's requirements.
2. Open manual shut-off valves to the washer-extractor.
3. Press the Emergency Stop button.
4. Apply power to the washer-extractor.
5. Release the Emergency Stop button.
6. Check the door interlock before starting operation:
 - a. Attempt to start the washer with the door open. The washer-extractor should not start with the door open.

- b. Close the door without locking it and attempt to start the washer. The washer should not start with the door unlocked.
- c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a service technician.

7. For standard processing, select a cycle. Then press the Start keypad.

Run a complete cycle, checking operation of water inlet valves, drain, and extract functions.

8. Cylinder rotation must be clockwise in an extract step for all models. If rotation is not correct, disconnect power. A qualified electrician must reverse any two leads between the AC drive and the main drive motor. Refer to *Figure 13*.

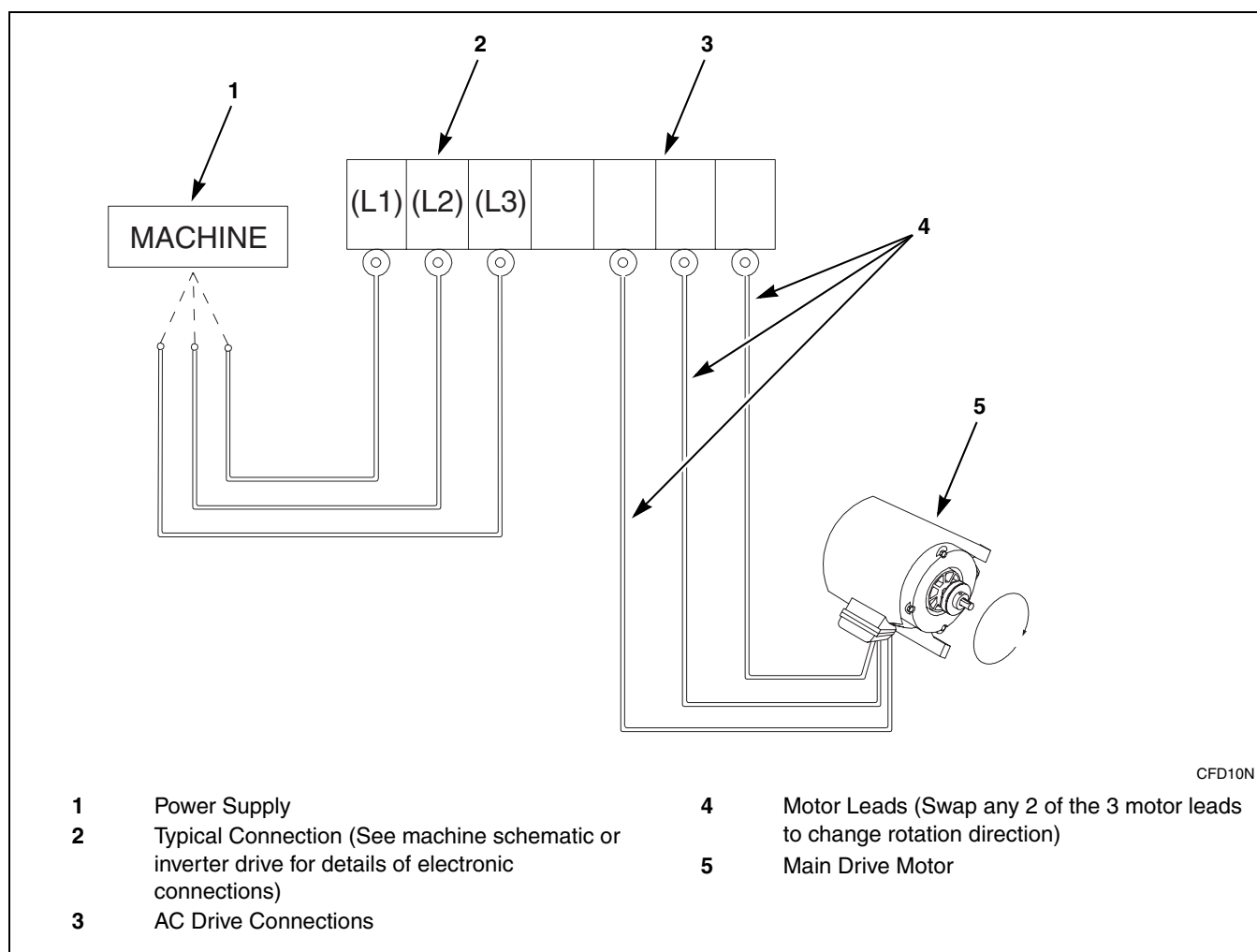


Figure 13